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 ISO 2001 Certified

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

**MANUFACTURER,S NAME**

Polyply Composites LLC

**EMERGENCY TELEPHONE NO.**

(616) 842 - 6330

**ADDRESS**

1540 Marion Street, Grand Haven, MI 49417

**PRODUCT NAMES**

POLYESTER PATCH MIX

**CHEMICAL NAME**

UNSATURATED POLYESTER RESIN, MINERAL FILLED

**CHEMICAL FAMILY**

UNSATURATED POLYESTER / STYRENE

**FILE NAME:** MSDS1

**REVISION: B REVISION DATE:** 1/10/2011

| COMPONENTS - Chemical Name & Common Names<br>(Hazardous Components 1% or Greater; Carcinogens 0.1% or Greater) | %*    | OSHA<br>PEL | ACGIH<br>TLV | COMMENTS |
|--|-------|-------------|--------------|----------|
| STYRENE MONOMER CAS NO. 100-42-5   | 10-15 | 50PPM       | 50PPM        |          |

### SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

|  |                                |                                       |                   |
|--|--------------------------------|---------------------------------------|-------------------|
| Boiling Point                          | @760 MMGH-294 F                | Specific Gravity (H <sub>2</sub> O=1) | 1.70 - 2.20       |
| Vapor Pressure (mm Hg and Temperature) | 4.3 @ 68 F                     | Melting Point                         | Not Determend     |
| Vapor density (Air =1)                 | 3.6                            | Evaporation Rate                      | SLOWER THAN ETHER |
| Solubility in Water                    | N/A                            | Water Reactive                        | NOT DETERMEND     |
| Appearance and Odor                    | MAY HAVE PUNGENT STYRENE ODOR. |                                       |                   |

### SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

|                                    |  |                           |     |                                       |         |         |
|------------------------------------|--|---------------------------|-----|---------------------------------------|---------|---------|
| Flash Point and Method Used        | 126 F ASTM D3278-73  | Auto-Ingition Temperature | N/A | Flamability Limits in Air % by Volume | LEL 1.1 | UEL 6.1 |
| Extinguisher Media                 | WATER, CARBON DIOXIDE, FOAM, DRY CHEMICAL - SAME AS WOOD FIRE                                      |                           |     |                                       |         |         |
| Special Fire Fighting Procedures   | PROTECTIVE CLOTHING, SELF CONTAINED MSHA/NIOSH APPROVED BREATHING APPARATUS. DO NOT BREATHE FUMES. |                           |     |                                       |         |         |
| Unusual Fire and Explosion Hazards | CONTINUED EXPOSURE TO HEAT WILL CAUSE AN EXOTHERMIC REACTION.                                      |                           |     |                                       |         |         |



**SECTION 4 - REACTIVITY HAZARD DATA****STABILITY**

- Stable  
 Unstable

Conditions To Avoid Prolonged storage at /or above 100° F

Incompatibility (Materials to Avoid) Peroxides and Polymerization Catalysts

Hazardous Decomposition Products Carbon Oxides and Hydrocarbons

**HAZARDOUS POLYMERIZATION**

- May Occur  
 Will Not Occur

Conditions To Avoid Temperatures at/or above 100° F and Strong Mineral Acids

**SECTION 5 - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY  Inhalation  Ingestion  Skin Absorption  Not Hazardous **CARCINOGEN LISTED IN**  NTP  OSHA  IARC Monograph  Not Listed

HEALTH HAZARDS Acute Eye & skin irritation, blurred vision, dizziness, fatigue, headache, vomiting  
Chronic Prolonged exposure/contact may cause dermatitis

Signs and Symptoms of Exposure Redness, itch, trouble breathing, nausea

Medical Conditions Generally Aggravated by Exposure None

**EMERGENCY FIRST AID PROCEDURES - Seek Medical assistance for further treatment, observation and support if necessary.**

Eye Contact  
 FLUSH WITH WATER FOR AT LEAST 20 MINUTES

Skin Contact  
 WASH AREA WITH MILD SOAP AND WATER. NOT KNOWN TO BE ABSORBED THROUGH SKIN

Inhalation  
 REMOVE TO FRESH AIR. IF SEVERE, OXYGEN OR CPR MAY BE ADMINISTERED.

Ingestion  
 DO NOT INDUCE VOMITING. KEEP PERSON WARM AND QUIET. SEEK MEDICAL ATTENTION IMMEDIATELY

**SECTION 6 - CONTROL AND PROTECTIVE MEASURES**

Respiratory Protection (Specify Type) NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS

Protective Gloves POLYMERIC OR CLOTH Eye Protection SAFETY GLASSES WITH SIDE SHIELDS

**VENTILATION TO BE USED**  Local Exhaust  Mechanical (general)  Special  
 Other (specify) VENTILATION TYPE IS DETERMINED BY EXPOSURE

Other Protective Clothing and Equipment APRON OR OTHER BODY COVERING

Hygienic Work Practices THE NEED FOR LOCAL VENTILATION

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES**

Steps to be Taken If Material Is Spilled Or Released ELIMINATE SOURCES OF IGNITION AND VENTILATE

Waste Disposal Methods UNCURED MATERIAL SHALL BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

Precautions to be Taken in Handling and Storage STORE IN COOL PLACE (<75° F). USE PROTECTIVE GLOVES

Other Precautions and/or Special Hazards NONE

